



Dart Aerospace Ltd.  
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Canada

Tel (613) 632-5200  
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**D145-762-053**  
**Job Sheet 190893**



**Part No:** D145-762-053

**Job Qty:** 2 pcs

**Part Name:** Replacement Wearplates for Standard Skidtubes Fit LH or RH



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 2/19/19

**Job Tracking No:**

**Due Date:** 3/26/19

**Created By:** Marie Lajeunesse

**Type:** Stock

**Description:**

**Note:** DWG REV E IPP REV:A 13.04.24 NEW ISSUE DD VERF:JLM IPP REV:B 13.11.14 AS PER IIN REV:C DD VERF:JLM IPP REV:C 14.11.24 as per ecn14-654/chg003 DD VERF:JLM IPP REV:D 15.06.11 IIN REV.D DD VERF:JLM IPP REV:E 16.02.05 IIN REV:E (ecn16-514) DD VERF:JLM

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation              | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off    |
|-------|------------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|-------------|
|       |                        |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |             |
| 110   | Packaging 1 - Pick Kit | 2 pcs |            | 3/26/19  | 0.00      | 0.00    | Packaging 1 - 1       |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 2       |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 3       |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 4       |           | APR 03 2019 |
|       |                        |       |            |          |           |         | Packaging 1 - 5       |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 6       |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 7       |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 8       |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 9       |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 10      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 11      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 12      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 13      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 14      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 15      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 16      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 17      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 18      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 19      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 20      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 21      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 22      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 23      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 24      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 25      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 26      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 27      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 28      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 29      |           |             |
|       |                        |       |            |          |           |         | Packaging 1 - 30      |           |             |



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**Container No:** S171263



**Part:** D145-762-053

**Job No:** 190893

**Serial No/Batch:** S171263

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions:** FAA STC SR01853SE 18/10/17 TC STC LoA RI

|                                 |       |         |           |  |                        |  |
|---------------------------------|-------|---------|-----------|--|------------------------|--|
|                                 |       |         |           |  | Packaging 1 - 31       |  |
|                                 |       |         |           |  | Packaging 1 - 32       |  |
|                                 |       |         |           |  | Packaging 1 - 33       |  |
|                                 |       |         |           |  | Packaging 1 - 34       |  |
|                                 |       |         |           |  | Packaging 1 - 35       |  |
|                                 |       |         |           |  |                        |  |
| 120 QC 4                        | 2 pcs | 3/26/19 | 0.00 0.00 |  | QC 4 - 26              |  |
|                                 |       |         |           |  | QC 4 - 28              |  |
|                                 |       |         |           |  | QC 4 - 42              |  |
|                                 |       |         |           |  | QC 4 - 58              |  |
|                                 |       |         |           |  | QC 4 - 6               |  |
|                                 |       |         |           |  | QC 4 - 69              |  |
|                                 |       |         |           |  | QC 4 - 9               |  |
|                                 |       |         |           |  | QC 4 - 46              |  |
| 130 Packaging 3-1 - Stock - B4B | 2 pcs | 3/26/19 | 0.00 0.00 |  | Packaging 3 - 1 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 2 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 3 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 4 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 5 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 6 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 7 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 8 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 9 - B4B  |  |
|                                 |       |         |           |  | Packaging 3 - 10 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 11 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 12 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 13 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 14 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 15 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 16 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 17 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 18 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 19 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 20 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 21 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 22 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 23 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 24 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 25 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 26 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 27 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 28 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 29 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 30 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 31 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 32 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 33 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 34 - B4B |  |
|                                 |       |         |           |  | Packaging 3 - 35 - B4B |  |
| 135 DC - 1 - B4B                | 2 pcs | 3/26/19 | 0.00 0.00 |  | DC - 1 - B4B           |  |
|                                 |       |         |           |  | DC - 2 - B4B           |  |
| 140 QC 21 - FG                  | 2 pcs | 3/26/19 | 0.00 0.00 |  | QC 21 - FG - 21        |  |
|                                 |       |         |           |  | QC 21 - FG - 70        |  |
|                                 |       |         |           |  | QC 21 - SA - 53        |  |

DAS

46

APR 10 2019

9-89

DAS

46

9-89

APR 11 2019

APR 11 2019

DAS

70

9-89

Part Op 110 - Pick Kit

Descriptions: 120 - QC4- 100% Inspect kits for completeness

130 - Identify as per dwg &amp; Stock Location: \_\_\_\_\_ Identify and pack for shipping as per PPP D145-762-053

Location: \_\_\_\_\_

135 - Document Control Photocopy bluefile &amp; type labels per PPP D145-762-053 CHG004

140 - QC21- Final Inspection - Work Order Release



**Job BOM**

| Part / Item              | Component Name     | Quantity       | Operation                  | Container            |
|--------------------------|--------------------|----------------|----------------------------|----------------------|
| AN4C42A                  | Bolt               | 4 Ea (2 ea)    | 110-Packaging 1 - Pick Kit | 5075172X1 5171244 43 |
| AN4C43A                  | Bolt               | 8 Ea (4 ea)    | 110-Packaging 1 - Pick Kit | 5095194X4 512 3882   |
| D4682-041 <sup>122</sup> | Wearplate Assembly | 2 pcs (1 ea)   | 110-Packaging 1 - Pick Kit | 5082759              |
| D4682-043 <sup>122</sup> | Wearplate Assembly | 2 pcs (1 ea)   | 110-Packaging 1 - Pick Kit | 5099328              |
| D4682-7 <sup>604</sup>   | Wearplate          | 2 pcs (1 ea)   | 110-Packaging 1 - Pick Kit | 5096784              |
| D4764-1                  | Bushing            | 24 pcs (12 ea) | 110-Packaging 1 - Pick Kit | 5099915              |
| MS21043-4                | Nut                | 12 Ea (6 ea)   | 110-Packaging 1 - Pick Kit | 5149143              |

**Job Allocations**

| Operation                  | Component Part | Required | Inventory | Allocated |
|----------------------------|----------------|----------|-----------|-----------|
| 110-Packaging 1 - Pick Kit | AN4C42A        | 4        | 1         | 0         |
|                            | AN4C43A        | 8        | 104       | 0         |
|                            | D4682-041      | 2        | 3         | 0         |
|                            | D4682-043      | 2        | 8         | 0         |
|                            | D4682-7        | 2        | 5         | 0         |
|                            | D4764-1        | 24       | 67        | 0         |
|                            | MS21043-4      | 12       | 1,501     | 0         |

**Part Specifications**

Specifications could not be found.

Plex 2/19/19 2:31 PM Dart.lajeunesse.marie

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                      |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
| <b>Root Cause</b><br><br><div style="display: flex;"> <div style="flex: 1;">           Operator <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Preservation <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Human Factors <input type="checkbox"/> </div> <div style="flex: 1;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex;"> <div style="flex: 1;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="flex: 1;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="flex: 1;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |



## 5.2 D145-762-013/-113 Skidtube Parts List

| Item | Qty<br>-013 | Qty<br>-043 | Qty<br>-053 | Qty<br>-113 | Qty<br>-153 | Part Number                                                                     | Description                                       |
|------|-------------|-------------|-------------|-------------|-------------|---------------------------------------------------------------------------------|---------------------------------------------------|
|      | X           |             |             |             |             | D145-762-013                                                                    | SKIDTUBE WITH STD WEARPLATES                      |
|      | 1           | X           |             | 1           |             | D145-762-043                                                                    | REPLACEMENT STD SKIDTUBE                          |
|      | 1           |             | X           |             |             | D145-762-053                                                                    | REPLACEMENT WEARPLATES<br>(STD SKIDTUBES)         |
|      |             |             |             | X           |             | D145-762-113                                                                    | SKIDTUBE WITH TRAINING<br>WEARPLATES              |
|      |             |             |             | 1           | X           | D145-762-153                                                                    | REPLACEMENT TRAINING<br>WEARPLATES (STD SKIDTUBE) |
| 101  |             | 1           |             |             |             | D4680-041                                                                       | SKIDTUBE ASSEMBLY                                 |
| 102  | 2           |             |             | 2           |             | **L321M1024101 OR<br>**B321M1026101                                             | SKID SHOE (REF ONLY)                              |
| 103  | 8           |             |             | 8           |             | **BRSP96/25-SK-WS-1 TEILIG OR<br>**BRSP98/25-SK-WS-1 TEILIG OR<br>**01618266098 | CLAMP (REF ONLY)                                  |
| 104  | 8           |             |             | 8           |             | **N/A                                                                           | OEM BOLT (REF ONLY)                               |
| 105  | 8           |             |             | 8           |             | **N/A                                                                           | OEM LOCKING WASHER (REF ONLY)                     |
| 106  | 8           |             |             | 8           |             | **N/A                                                                           | OEM WASHER (REF ONLY)                             |
| 110A |             | 1           |             |             |             | *D2965                                                                          | CAP                                               |
| 110B |             | 1           |             |             |             | *D2965-3                                                                        | CAP                                               |
| 111  |             | 4           |             |             |             | ***AELS-1032-225                                                                | INSERT                                            |
| 112  |             | 2           |             |             |             | *AN3C5A                                                                         | BOLT                                              |
| 113  |             | 2           |             |             |             | *NAS1149C0332R                                                                  | WASHER (OR AN960C10L)                             |
| 114  |             | 2           |             |             |             | *AN526C1032                                                                     | SCREW                                             |
| 120A |             |             | 1           |             |             | D4682-041                                                                       | WEARPLATE                                         |
| 120B |             |             | 1           |             |             | D4682-043                                                                       | WEARPLATE                                         |
| 120C |             |             | 1           |             |             | D4682-7                                                                         | WEARPLATE                                         |
| 121A |             |             |             |             | 1           | D4769-041                                                                       | WEARPLATE                                         |
| 121B |             |             |             |             | 1           | D4773-041                                                                       | WEARPLATE                                         |
| 121C |             |             |             |             | 1           | D4771-041                                                                       | WEARPLATE                                         |
| 122  |             |             | 12          |             | 12          | D4764-1                                                                         | BUSHING                                           |
| 123  |             |             | 2           |             | 2           | AN4C42A                                                                         | BOLT                                              |
| 124  |             |             | 4           |             | 4           | AN4C43A                                                                         | BOLT                                              |
| 125  |             |             | 6           |             | 6           | MS21043-4                                                                       | NUT                                               |
| 130  |             | 3           |             |             |             | *AELS-1032-130                                                                  | INSERT                                            |
| 131  |             | 3           |             |             |             | *AN3C4A                                                                         | BOLT                                              |
| 132  |             | 3           |             |             |             | *NAS1149C0332R                                                                  | WASHER (AN960C10L)                                |
| 150  | 2           |             |             | 2           |             | AN6C52A                                                                         | BOLT                                              |
| 151  | 2           |             |             | 2           |             | D5300-1                                                                         | GHL BUSHING                                       |
| 152  | 2           |             |             | 2           |             | D5301-1                                                                         | GHL PLUG                                          |
| 153  | 2           |             |             | 2           |             | MS21043-6                                                                       | NUT                                               |

\* PART IS INCLUDED WITH D4680-041 STD SKIDTUBE ASSEMBLY

\*\* TO BE SUPPLIED BY CUSTOMER, LISTED AS REFERENCE ONLY

\*\*\* DENOTES PART IS INCLUDED WITH ASSEMBLY ABOVE

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Revision: E

Date: 15.08.25

## Change Record

PAGE 1 OF 1

Part Number: D145-762-053Description: REPLACEMENT WEARPLATES (STD SKIDTUBE)[illegible]